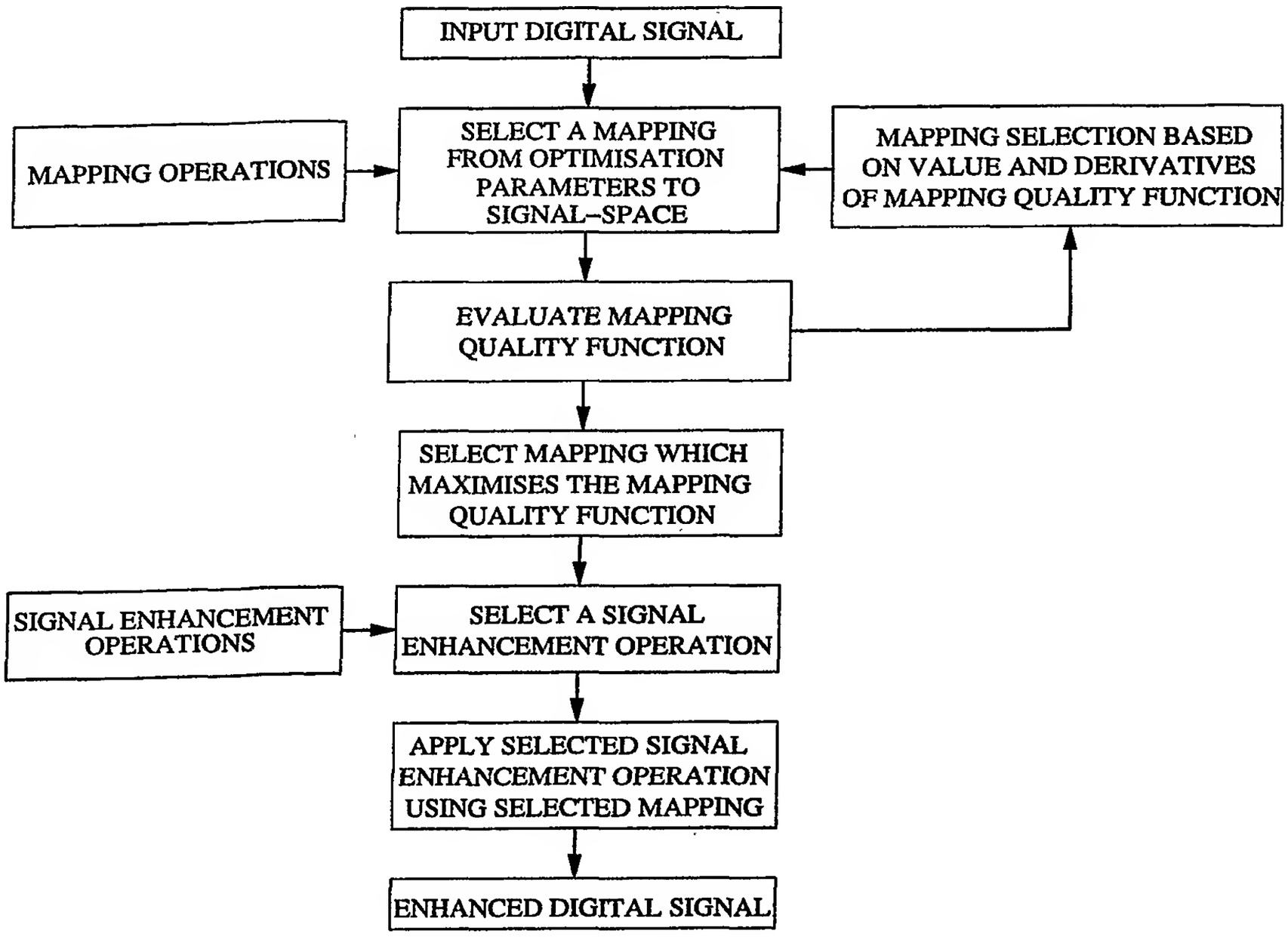
INPUT DIGITAL SIGNAL
MAPPING OPERATIONS
SELECT A MAPPING FROM OPTIMISATION PARAMETERS TO SIGNAL–SPACE
MAPPING SELECTION BASED ON VALUE AND DERIVATIVES OF MAPPING QUALITY FUNCTION
EVALUATE MAPPING QUALITY FUNCTION
SELECT MAPPING WHICH MAXIMISES THE MAPPING QUALITY FUNCTION
SIGNAL ENHANCEMENT OPERATIONS
SELECT A SIGNAL ENHANCEMENT OPERATION
APPLY SELECTED SIGNAL ENHANCEMENT OPERATION USING SELECTED MAPPING
ENHANCED DIGITAL SIGNAL

Figure 1:

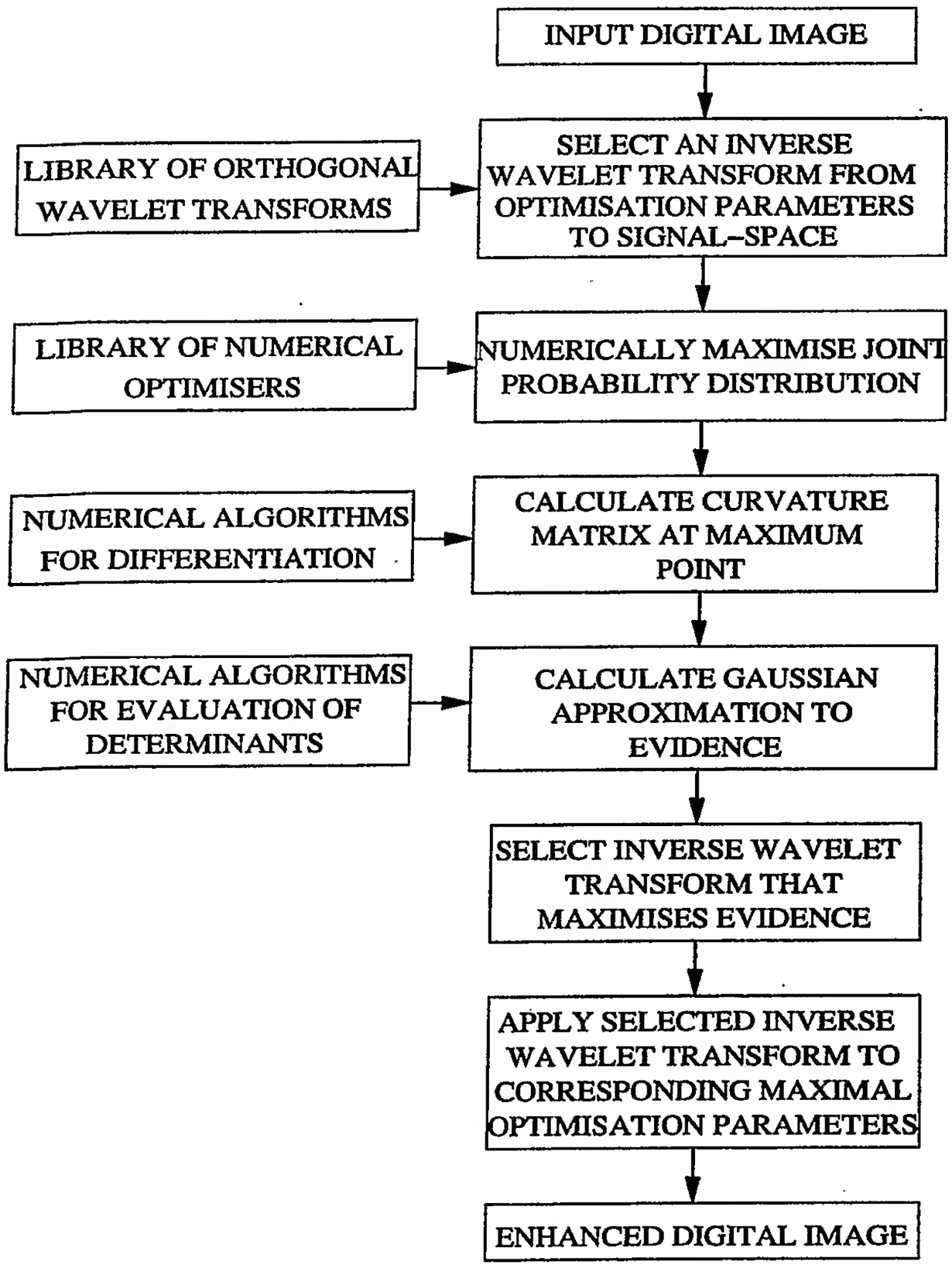
INPUT DIGITAL IMAGE
LIBRARY OF ORTHOGONAL WAVELET TRANSFORMS
SELECT AN INVERSE WAVELET TRANSFORM FROM OPTIMISATION PARAMETERS TO SIGNAL–SPACE
LIBRARY OF NUMERICAL OPTIMISERS
NUMERICALLY MAXIMISE JOINT PROBABILITY DISTRIBUTION
NUMERICAL ALGORITHMS FOR DIFFERENTIATION
CALCULATE CURVATURE MATRIX AT MAXIMUM POINT
NUMERICAL ALGORITHMS FOR EVALUATION OF DETERMINANTS
CALCULATE GAUSSIAN APPROXIMATION TO EVIDENCE
SELECT INVERSE WAVELET TRANSFORM THAT MAXIMISES EVIDENCE
APPLY SELECTED INVERSE WAVELET TRANSFORM TO CORRESPONDING MAXIMAL OPTIMISATION PARAMETERS
ENHANCED DIGITAL IMAGE

Figure 2:

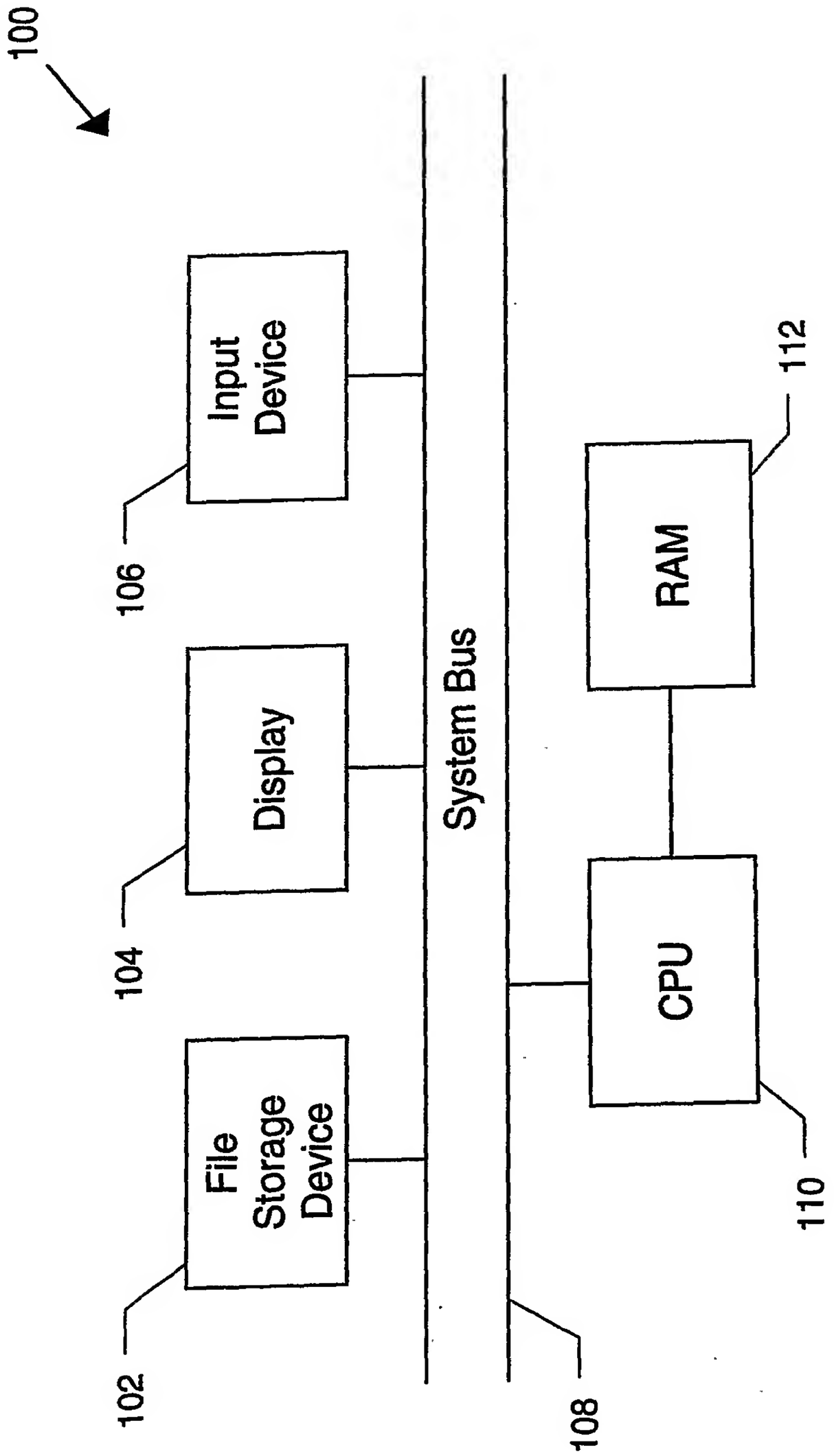
100
Input Device
106
Display
104
File Storage Device
102
System Bus
RAM
112
CPU
110
108

Figure 3